

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11)Publication number: **03271109 A**

(43)Date of publication of
application: **03. 12 . 91**

(51)Int. Cl. **C01B 31/06**
B01J 3/08

(21)Application number: **02072655**

(22)Date of filing: **22 . 03 . 90**

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(54)SYNTHESIS OF DIAMOND

(57)Abstract:

PURPOSE: To obtain diamond with improved recovery efficiency by exploding underwater an organic explosive composition with the oxygen balance level adjusted negatively.

CONSTITUTION: Firstly, a flammable material negative in oxygen balance level (e.g. 2,5-dibromo-4-nitrophenol) is added to a dynamite composition including cyclotetramethylene tetranitramine and picric

acid followed by forming into an organic explosive composition -0.25--1.2 in oxygen balance level. Thence, this composition is set in a sealing tube with one end open, and the resulting sealed tube is suspended underwater at a position 350cm in depth so that its major axis be nearly horizontal, and then exploded. The resultant tube is then lifted with its opening upward and left at rest, thus recovering the diamond produced.

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